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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/559,206	04/26/2000	Daniel Manhung Wong	OR00-01101	1513
22835 75	590 05/23/2003			
	GHAN & FLEMING	- EXAMINER		
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DAVIS, CA 9	5616		ART UNIT	PAPER NUMBER
			2172	
			DATE MAILED: 05/23/2003	-(

Please find below and/or attached an Office communication concerning this application or proceeding.

		Amplication No.	Annlingation	
		Application No.	Applicant(s)	
Office Action Summary		09/559,206	WONG, DANIEI	- MANHUNG
		Examiner	Art Unit	
	4==	Baoquoc N To	2172	
The MAILING D	ATE of this communication a	ppears on the cover sh	eet with the correspondence a	address
THE MAILING DATE C - Extensions of time may be as after SIX (6) MONTHS from t - If the period for reply specifie - If NO period for reply is speci - Failure to reply within the set	fied above, the maximum statutory period or extended period for reply will, by stati ice later than three months after the mai	I. 1.136(a). In no event, however, eply within the statutory minimur ld will apply and will expire SIX. ute, cause the application to be	may a reply be timely filed n of thirty (30) days will be considered tin (6) MONTHS from the mailing date of this come ABANDONED (35 U.S.C. & 133).	
1) Responsive to	communication(s) filed on _			·
2a) This action is F	INAL. 2b)⊠ 1	This action is non-final		
	cation is in condition for allog dance with the practice unde		al matters, prosecution as to 35 C.D. 11, 453 O.G. 213.	the merits is
4)⊠ Claim(s) <u>1-24</u> is	are pending in the application	on.		
4a) Of the above	claim(s) is/are withdr	awn from consideratio	n.	
5) Claim(s) i	s/are allowed.			
6)⊠ Claim(s) <u>1-24</u> is/	are rejected.			
7) Claim(s) i	s/are objected to.			•
8) Claim(s) 8	are subject to restriction and	or election requirement	nt.	
Application Papers				•
9) The specification	is objected to by the Examir	ner.		
10) The drawing(s) file	ed on is/are: a)□ acc	epted or b) objected t	o by the Examiner.	
•			abeyance. See 37 CFR 1.85(a	•
· ·) disapproved by the Exam	iner.
	ected drawings are required in i	· ·		
	ration is objected to by the E	Examiner.		
Priority under 35 U.S.C. §	•		·	
13) Acknowledgmen	t is made of a claim for forei	gn priority under 35 U.	S.C. § 119(a)-(d) or (f).	
a)∐ All b)∐ Som				
	opies of the priority docume			
2. Certified co	opies of the priority docume	nts have been received	d in Application No	
applica	the certified copies of the pri ation from the International E detailed Office action for a lis	Bureau (PCT Rule 17.2	been received in this Nationa (a)). s not received.	al Stage
14) Acknowledgment i	s made of a claim for domes	stic priority under 35 U	S.C. § 119(e) (to a provision	al application).
	on of the foreign language p is made of a claim for dome:	• •		
Attachment(s)				
	(PTO-892) atent Drawing Review (PTO-948) tement(s) (PTO-1449) Paper No(s)	5) 🔲 Not	erview Summary (PTO-413) Paper Nice of Informal Patent Application (Per:	
.S. Patent and Trademark Office PTO-326 (Rev. 04-01)	Office A	Action Summary	Part of Paper No.	9
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DETAILED ACTION

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 02/24/03 has been entered.
- 2. Claims 1-24 are presented for examination.

Response to Arguments

3. Applicant's arguments filed 02/24/03 have been fully considered but they are not persuasive.

The applicant argues, "Neither Maier nor Park, either separately or in concert, suggest or imply an advantage for creating an audit record only for rows where auditing is enable."

The examiner disagrees with the applicant because Maier discloses a new audit records in the auditing trail 204 (col. 7, lines 8-9). In addition, Maier also disclose, "an AuditTrial filter" to set certain on condition to allow the only AuditTrail record that pertain to the Old Partition are received for processing (col. 8, lines 35-40).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 4-5, 7-9, 12-13, 15-17, 20-21 and 23-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maier et al (US. Patent No. 5,625,815) in view of Green et al. (US. Patent No. 6,041,310).

Regarding on claims 1, 9, and 17, Maier teaches method for selectively auditing accesses to a relational database, comprising:

receiving a query for the relational database [col. 3, lines 65-67];

automatically modifying the query prior to processing the query, so that processing the query causes an audit record to be created and recorded only rows in relational tables that are accessed by the query and that satisfy an auditing condition, wherein satisfying the auditing condition allows selective auditing of the query [col. 4, lines 10-12];

processing the modified query to produce a query result [col. 6, lines 35-39], wherein

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processing the modified query includes, creating the audit record for rows in relational tables that are accessed by the query and that satisfy the auditing condition [col. 8, lines 28-29], and

recording the audit record in an audit record store [col. 4, line 12]; and returning the query result [col. 6, lines 35-39].

Maier does not explicitly teach automatically modifying the query prior to processing the query and creating the audit records for rows and satisfying the auditing condition. Maier teaches, "any new audit record in the audit trail 204 associated with the first object 200 are accessed and corresponding to the redo operation are performed against the second object 202" (col. 7, lines 8-11). This teaches the new audit record is creating records for rows. In addition, Maier also teaches, "an AuditTrail filter is establish such that only AuditTrail records that pertain to the Old Partition are received for processing (by an Audit Fixup Process started by the SQL catalog manager). The processing of each audit record that passes the filter is called and "audit fixup" (col. 8, lines 35-40). This teaches the AuditTrial filter is the auditing condition. On the other hand, the method of modifying the query prior processing to redirect the query to perform the different request is known in the art. For example, Green discloses, "first, if non of the readership inventory matches the customer query exactly, terminal processor 10a automatically modifies the primary query to create the second query so that at least one vehicle is displayed" (col. 10, lines 63-66). This teaches modifying the query. Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to modify the teaching of Green into Maier because

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automatically modifying query would allow the system to adapt to any changes and efficiently retrieve or create the results according to the changes.

Regarding on claims 4, 12 and 20, Maier teaches retrieving the auditing condition for a given table from a data structure associated with the given table [col. 6, lines 8-19].

Regarding on claims 5, 13 and 21, Maier teaches the query modifies at least one entry in the relational database, using a relational database system trigger to create and record the audit record for the modification to the relational database [col. 4, lines 10-12].

Regarding on claims 7, 15 and 23, Maier teaches the audit record includes: a user name for a user making the query [col. 6, line 4]; a time stamp specifying a time of the query [col. 6, lines 4-10]; and a text of the query [col. 6, lines 15-18].

Regarding on claims 8, 16 and 24, Maier teaches the auditing condition includes a condition for a field within the relational database [col. 5, lines 2-3].

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4. Claims 2-3, 6, 10-11, 14, 18-19 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maier et al (US. Patent No. 5,625,815) in view of Green et al. (US. Patent No. 6,064,951) and further in view of Cochrane et al. (US. Patent No. 6,041,310).

Regarding on claims 2, 10, and 18, Maier and Park teaches the claimed subject matter excepting the query includes a select statement, inserting a case statement into the select statement that calls a function that causes the audit record to be created and recorded if the auditing condition is satisfied. However, Cochrane teaches, SELECT 1 FROM VALUES (1)

WHERE 1>CASE WHEN EXIST (SQL-stmt1 WHERE 1=0)

THEN

WHEN EXIST (SQL-stmtn WHERE 1=0)

THEN 1

ELSE 1 END" [col. 8, lines 55-50];

This teaches that the case statement is inserted in the selected SQL statement to call the function. Cochrane does not teach the function that causes audit record to be created and recorded if the auditing condition is satisfied. However, this function can be modified to accommodate the requirements by putting the required parameters to create the auditing records. Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to include teaching of Cochrane into Maier and Park because inserting the case statement in to the SELECT statement in Cochrane to allow the function to create auditing records.

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Regarding on claims 3, 11, and 19, Cochrane teaches ensuring that the case statement is evaluated near the end of the query processing so that the case statement is evaluated only after other conditions of the query are satisfied, so that the audit record is created only for rows that are actually accessed by the query (col. 8, lines 55-60).

Regarding on claims 6, 14, and 22, Cochrane teaches, inserting the case statement into the query (col. 8, lines 55-60); allowing a query processor to allocate buffers for the query (col. 8, lines 55-60); removing the case statement from the query (col. 8, lines 55-60);

allowing the query processor to generate a query plan for the query; and scheduling the case statement near the end of the query plan to ensure that the case statement is evaluated only after other conditions of the query are satisfied, so that the audit record is created only for rows that are actually accessed by the query (col. 8, lines 55-60).

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Contact Information

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Baoquoc N. To whose telephone number is (703) 305-1949 or via e-mail Baoquoc N. To@uspto.gov. The examiner can normally be reached on Monday-Friday: 8:00 AM – 4:30 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Y. Vu can be reached at (703) 305-4393.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231.

The fax numbers for the organization where this application or proceeding is assigned are as follow:

• (703) 746-7238 [After Final Communication]]

• (703) 746-7239 [Official Communication]

• (703) 746-7240 [Non-Official Communication]

Hand-delivered responses should be brought to:

Crystal Park II

2121 Crystal Drive

Arlington, VA 22202

Fourth Floor (Receptionist).

Baoquoc N. To

May 14, 2002

JEAN M. CORRIELUS PRIMARY EXAMINER